SPRINT 1

Date	30 October 2022
Team ID	PNT2022TMID36140
Project Name	Hazardous Area Monitoring for industrial plant Powered by IoT

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Task:
Create python code
CODE:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "w1v28e"
deviceType = "raspberrypi"
deviceId = "sk40"
authMethod = "token"
authToken = "110319106040"
def myCommandCallback (cmd):
  print ("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status== "motoron":
    print ("motor is on")
  elif status == "motorff":
    print ("motor is off")
  else:
    print ("please send proper command")
try:
  deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,
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"auth-method":authMethod, "auth-token":authToken}
  deviceCli= ibmiotf.device.Client (deviceOptions)
#..
except Exception as e:
  print ("Caught evention connecting device: %s" % str(e))
  sys.exit()
deviceCli.connect()
while True:
  temp=random.randint (-10,100)
  Humid=random.randint (40,100)
  soilmoisture=random.randint (10,100)
  Windspeed kmh=random.randint (15,60)
  data = {'temp': temp,'Humid': Humid,'soilmoisture': soilmoisture,'Windspeed_kmh':
Windspeed_kmh}
  def myonPublishCallback():
    print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "soilmoisture =
%s" % soilmoisture, "Windspeed_kmh = %s NTU" % Windspeed_kmh, "to IBM Watson")
  success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myonPublishCallback)
  if not success:
    print("Not connected to IOTF")
  time.sleep (10)
  deviceCli.commandCallback = myCommandCallback
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deviceCli.disconnect()

OUTPUT:

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